

Appendix K

Contamination Survey Summary

M-15 DEIS Contamination Survey Summary

The Project Area Contamination Survey (PACS), provided under separate cover, is a companion document to the Draft Environmental Impact Statement (DEIS) for the M-15 project between I-75 and I-69 in Oakland and Genesee counties. The PACS was prepared in accordance with the appropriate sections of MDOT's Guidance Manual for Preparing Environmental Documents. The methodology used was generally consistent with the American Society for Testing and Materials (ASTM) Standard E 1527-97 Phase I Environmental Site Assessment. A list of commercial/industrial sites within the project corridor was developed from field reconnaissance data and public record reviews. Residential and institutional properties were not included in this PACS unless they were listed on an environmental sites list.

The assessment for contamination included: field reconnaissance; interviews with business owners and governmental agency's representatives; review of federal and state environmental databases; and, review of historical land use records.

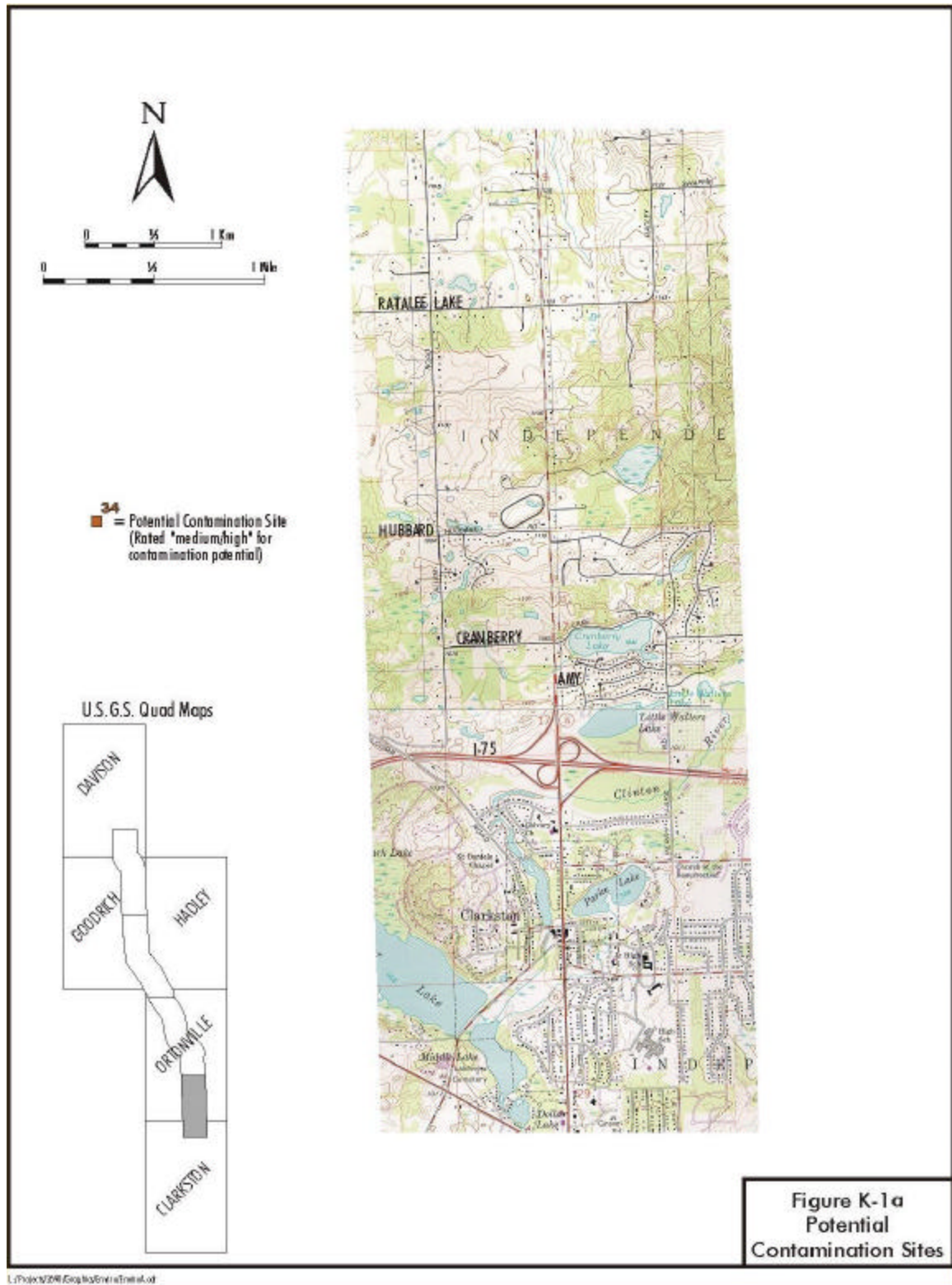
Review of the following federal environmental databases did not identify any listed sites within one mile of the project corridor: CERCLIS (Comprehensive Environmental Response, Compensation, and Liability, Information System); NPL (National Priorities List (Superfund)); and, RCRIS-TSDs (Resource Conservation and Recovery Information System hazardous waste Treatment, Storage and Disposal facilities).

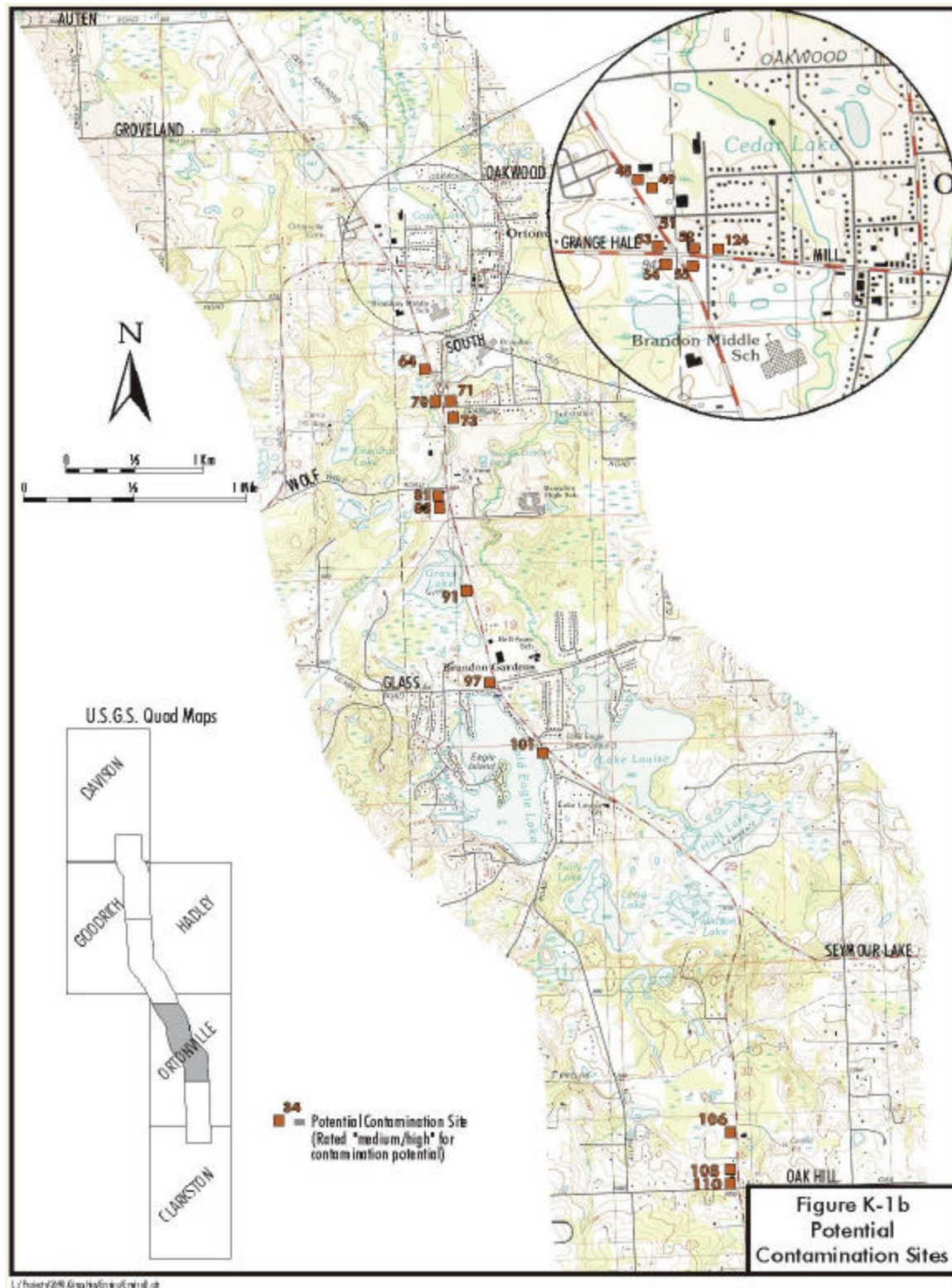
The Michigan Contaminated Sites list, the equivalent of a state superfund list, contained one site within the project corridor. A site known as the Mill Street Residential Wells in Ortonville involved a contaminated groundwater plume that apparently extends from the Mill Street area in Ortonville west to M-15. The depth to groundwater in this area is less than ten feet in some locations; therefore, contaminated groundwater could be encountered during construction. Other state environmental databases and records reviewed included permitted hazardous waste generators, underground and aboveground storage tank sites, and landfills/solid waste facilities. Twenty-six permitted hazardous waste generators were identified along M-15 within the project corridor. Most of these facilities were registered for disposal of tank sludge and waste liquids generated during the removal of underground storage tanks (USTs) and are not currently generating hazardous wastes.

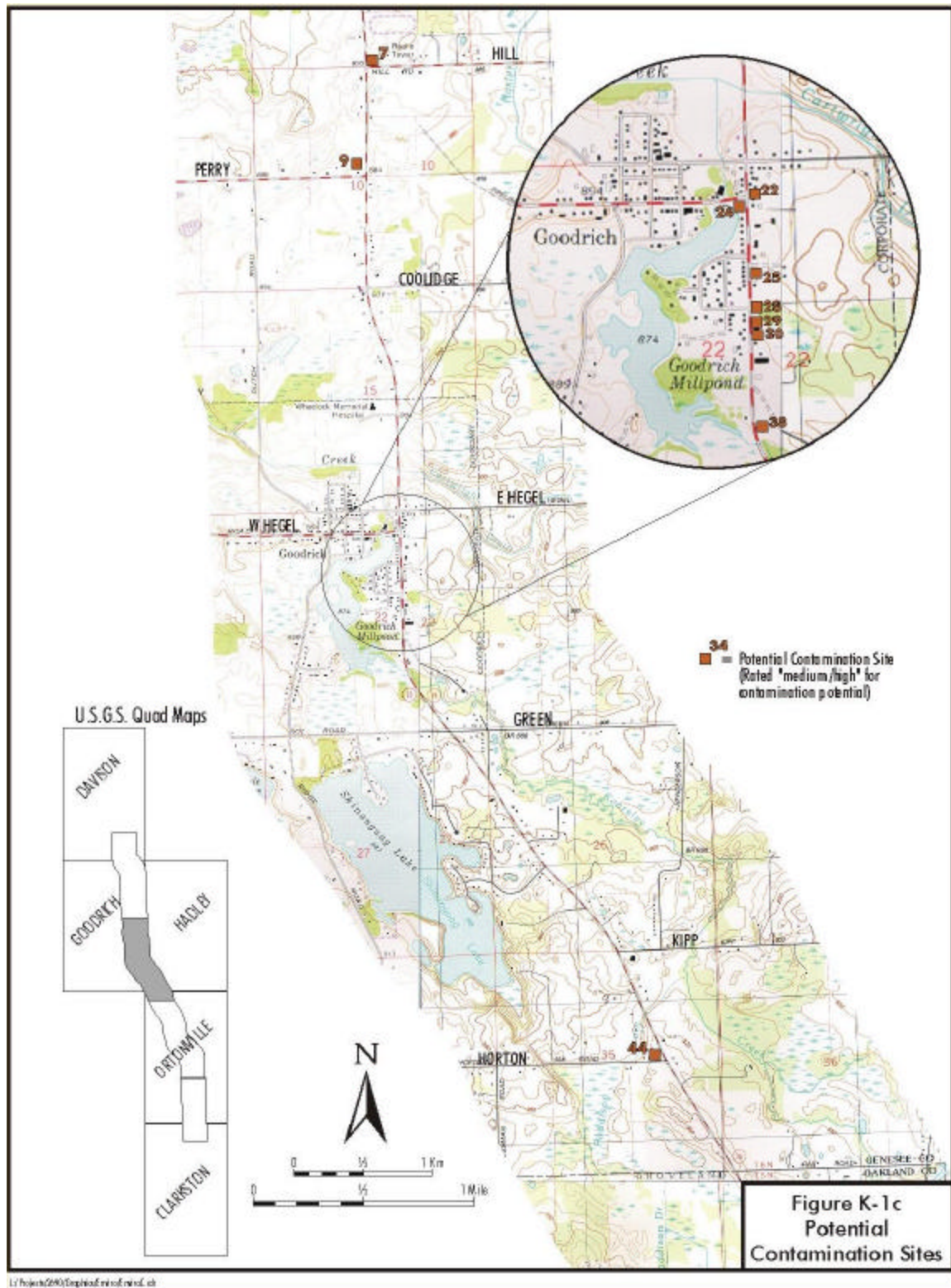
The potential contamination sites were assigned a unique Site Identification No. (SID No.). The SID numbering system begins with No. 1 at the north end of the project and increases sequentially toward the south end of the project corridor. The potential contamination sites were categorized according to their relative contamination risk. The categories were N (no), L (low) and M/H (medium or high) contamination potential (Figure K-1 and Table K-1).

Seven non-underground storage tank sites were classified as "medium/high" for contamination potential because of their handling of hazardous materials or wastes, and the presence of an on-site septic system. These sites should be tested for soil and groundwater impacts in the next level of assessment.

No permitted solid waste/landfill facilities were identified within the project corridor.







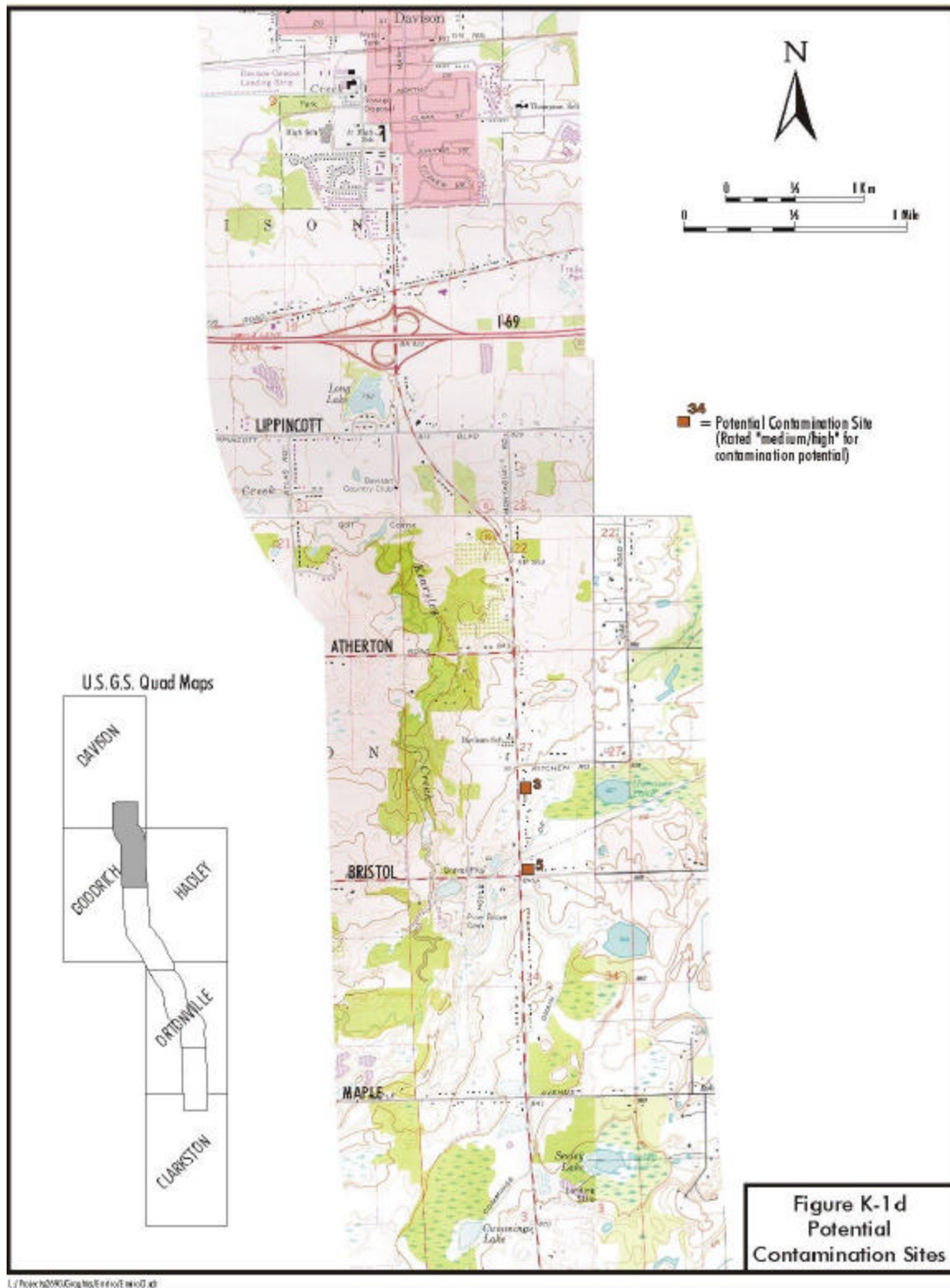


Table K-1
Potential Contamination Sites

SID No.	Site Name (Former Name or Use)	Address or Location	City	Five-Lane Alternative		Narrow Median Blvd. Alternative	
				ROW W or A	Contamination Potential Rating	ROW W or A	Contamination Potential Rating
1	Mobil Gas Station	1499 S State Rd	Davison	A	L	A	L
2	McLaren Community Medical Center	10090 Lippincott Blvd	Davison	W	N	W	N
3	Zips Party Store (Zirnhelms County Market)	3355 S State Rd	Davison	W	M/H	W	M/H
4	Konickza Heating & Cooling	3423 S State Rd	Davison	W	L	W	L
5	Vacant Garage, NE corner of Bristol Rd & M-15	Bristol Rd/M-15	Davison	W	M/H	W	M/H
6	Filled Site, west of M-15, south of Maple Road	Near Maple Rd	Davison	A	N	W	L
7	Last Chance Party Store	5545 S State Rd	Davison	A	L	W	M/H
8	Freeway Sports Center	S State Rd	Davison	A	N	W	L
9	Burton Industries	6202 S State Rd	Goodrich	A	L	W	M/H
10	Burkland Textron	6520 S State Rd	Goodrich	A	L	W	L
11	Genesys Regional Medical (Wheelock Mem. Hosp.)	7280 S State Rd	Goodrich	A	N	W	N
12	Browns Do-It Yourself Hardware	7281 S State Rd	Goodrich	A	N	W	N
13	Urgent Care	7320 S State Rd	Goodrich	A	N	W	N
14	Jan's Sport Marine	7285 S State Rd	Goodrich	A	L	W	L
15	Bank One	7301 S State Rd	Goodrich	A	N	W	N*
16	Dentist Office	7401 S State Rd	Goodrich	A	N	W	N*
17	Goodrich Medical Center	7477 S State Rd	Goodrich	A	N	W	N*
18	Pytel Veterinary Clinic	8157 S State Rd	Goodrich	A	N	W	N*
19	Kens Ready Mix	8016 S State Rd	Goodrich	W	L	A	N*
20	Office Bldg. - Advance Industries	7523 S State Rd	Goodrich	W	N	A	N*
21	Village Dental Center	S State Rd	Goodrich	W	N	A	N*
22	Church and Sons Auto Center (Kellys Auto Repair)	8039 S State Rd	Goodrich	W	M/H	A	N*
23	John's Steak House (Dominic Sirignano)	8038 State Rd	Goodrich	W	L	A	N*
24	Quick-Sav Food Stores	10318 Hegel Rd	Goodrich	W	M/H	A	N*
25	Vacant Lot, SE corner of Hawes & M-15	Hawes/M-15	Goodrich	W	M/H	A	N*
26	Family Party Store (Pizzaria/Grocery)	8168 State Rd	Goodrich	W	N	A	N*
27	Goodrich Plaza	8159-75 State Rd	Goodrich	W	N	A	N*
28	Morts Barber Shop/Goodrich Cleaners	8191-93 State Rd	Goodrich	W	M/H	W	M/H
29	Town Pride Carpet	8217 State Rd	Goodrich	W	M/H	A	N*
30	Goodrich Car Care/Custom Car Care (Oakhill Auto Restoration)	8221-23 S State Rd	Goodrich	W	M/H	A	N*
31	Donut Shop/Wilsons Weenies	8223 S State Rd	Goodrich	W	N	A	N*
32	Wren in the Willow	8241 S State Rd	Goodrich	W	N	A	N*
33	Bull Ring Lounge	8234 State Rd	Goodrich	W	N	A	N*

Note: ROW - Right-of-Way; W - Within; A - Adjacent

M/H - Medium or High contamination potential.

N/L - No or Low contamination potential.

* - The one-way pair option was evaluated at these properties instead of the narrow boulevard.

**Table K-1
Potential Contamination Sites (Continued)**

SID No.	Site Name (Former Name or Use)	Address or Location	City	Five-Lane Alternative		Narrow Median Blvd. Alternative	
				ROW W or A	Contamination Potential Rating	ROW W or A	Contamination Potential Rating
34	D.I. Mfr. Co.	8234 State Rd.	Goodrich	W	N	A	N*
35	Goodrich Mfg. Co.	8267 S. State Rd.	Goodrich	W	L	A	N*
36	U.S. Post Office	8283 S. State Rd.	Goodrich	W	N	A	N*
37	Area Real Estate/Margies Pizza	8331 State Rd.	Goodrich	W	N	W	N
38	Nu View Auto Glass/Car Wash	8355 State Rd.	Goodrich	W	M/H	W	M/H
39	Goodrich Auto Parts/RJs TV Repair	8359-65 S. State Rd.	Goodrich	W	L	W	L
40	The Village Greenery	8340 State Rd.	Goodrich	W	L	W	L
41	Atlas Real Estate (Germaines Corvettes)	8491 State Rd.	Goodrich	W	L	W	L
42	Marcle Chiropractor	9037 State Rd.	Goodrich	W	N	W	N
43	Rainbow Day Care Center, Inc.	11303 Kipp Rd.	Goodrich	W	N	W	N
44	Vacant Commercial Bldg	Horton Rd & M-15	Goodrich	A	L	W	M/H
45	Bedrock Express	1290 M-15	Ortonville	A	L	W	L
46	Oak Square Parking Lot	360 N. Ortonville Rd.	Ortonville	A	N	W	N
47	POH Medical Center (Ortonville Family Medicine)	180 N. Ortonville Rd.	Ortonville	A	N	W	L
48	Recovery Systems Int. (Allflo Products)	160 N. Ortonville Rd.	Ortonville	A	N	W	M/H
49	Engineering Tube Specialties (former dairy)	Ortonville Rd.	Ortonville	A	L	W	M/H
50	The Filling Station Café	39 N. Ortonville Rd.	Ortonville	A	N	W	N
51	Rite Aid (Waterlock Solvents)	1 Mill Street	Ortonville	A	L	W	M/H
52	Ace Hardware (Waterlock Solvents)	4 N. Ortonville Rd.	Ortonville	A	L	W	M/H
53	Marathon Station (CMS/Boron)	15 N. Ortonville Rd.	Ortonville	W	M/H	W	M/H
54	Closed Garage (Futura Collision)	12 M-15	Ortonville	W	M/H	W	M/H
55	Little Caesars (former gas station)	11 S. Ortonville Rd.	Ortonville	W	M/H	W	M/H
56	Active Homes by Lorcon	20 S. Ortonville Rd.	Ortonville	A	N	W	N
57	Narrin Place (Shops)	50 S. Ortonville Rd.	Ortonville	A	N	W	N
58	Vacant Comm. Bldg.	105 S. Ortonville Rd.	Ortonville	A	L	W	L
59	Brandon Schools	817 Ortonville Rd.	Ortonville	A	N	W	N
60	Simms Chevrolet (Owen Motors, Inc.)	110 S. Ortonville Rd.	Ortonville	A	N	W	L
61	C & I Oil Change	150 S. Ortonville Rd.	Ortonville	A	N	W	L
62	Ortonville Montisorti Center	S. Ortonville Rd.	Ortonville	A	N	W	N
63	Hamiltons Propane, Inc.	300 Ortonville Rd.	Ortonville	A	N	W	L
64	Vacant Commercial Bldg (Bell Auto Parts)	384 Ortonville Rd.	Ortonville	A	L	W	M/H
65	Oxford Bank	345 S. Ortonville Rd.	Ortonville	A	N	W	N
66	Willowpointe Flowers & Gifts	425 M-15	Ortonville	W	N	W	N

Note: ROW - Right-of-Way; W - Within; A - Adjacent

M/H - Medium or High contamination potential.

N/L - No or Low contamination potential.

* - The one-way pair option was evaluated at these properties instead of the narrow boulevard.

**Table K-1
Potential Contamination Sites (Continued)**

SID No.	Site Name (Former Name or Use)	Address or Location	City	Five-Lane Alternative		Narrow Median Blvd. Alternative	
				ROW W or A	Contamination Potential Rating	ROW W or A	Contamination Potential Rating
67	A & W Restaurant	470 South Street	Ortonville	W	N	W	N
68	Village Hair & Nails (Arbor Drugs)	440 Ortonville Rd	Ortonville	A	N	W	N
69	Office Bldg. - Jayco Roofing	456 S Ortonville Rd	Ortonville	A	N	W	N
70	Country Countertops	490 S Ortonville Rd	Ortonville	A	L	W	M/H
71	Clark Station	495 S Ortonville Rd	Ortonville	W	M/H	W	M/H
72	Seelbinder Insurance	507 S Ortonville Rd	Ortonville	A	N	W	N
73	Brandon Tire & Auto Center	595 S Ortonville Rd	Ortonville	A	L	W	M/H
74	Mid State General Contractors	610 S Ortonville Rd	Ortonville	A	N	A	N
75	Countryside Realtors	630 S Ortonville Rd	Ortonville	A	N	W	N
76	Macfees Restaurant	650 S Ortonville Rd	Ortonville	A	N	W	N
77	Vacant Shopping Center	S Ortonville Rd	Ortonville	A	N	W	N
78	Bank one	761 S Ortonville Rd	Ortonville	A	N	W	N
79	Brandon Family Dentist Office	830 S Ortonville Rd	Ortonville	A	N	W	L
80	Stone House Collectibles	850 S Ortonville Rd	Ortonville	A	N	W	N
81	Forster Auto Wash	880 S Ortonville Rd	Ortonville	A	L	W	M/H
82	Office Bldg- Century 21	S Ortonville Rd	Ortonville	A	N	W	N
83	James Lumber Co. (Brandon Building Center, Oxford Lumber))	910 S Ortonville Rd	Ortonville	A	L	W	M/H
84	McDonalds	925 S Ortonville Rd	Ortonville	A	N	W	N
85	Frosty Boy	955 M-15	Ortonville	A	N	W	N
86	Brandon Medical Center	M-15	Ortonville	A	N	W	L
87	Arrants Ford	968 Ortonville Rd	Ortonville	A	L	A	L
88	Commercial Site (under construction)	Ortonville Rd	Ortonville	A	N	W	L
89	Office Bldg - Ortonville Foot & Ankle/Williams Health Care	1221 S Ortonville Rd	Ortonville	A	N	W	L
90	Office Bldg - Dentist/Medical/Insurance	1201 S Ortonville Rd	Ortonville	A	N	W	L
91	J & F Collision, Inc.	1342 S Ortonville Rd	Ortonville	W	M/H	W	M/H
92	Smooth Finish Concrete/Harrison Hoe, Inc. (Greenlake Meats)	1358 S Ortonville Rd	Ortonville	A	N	W	L
93	Pet's Supply/Restaurant/Tobacco Shop/Dance Studio	1575-05 S Ortonville Rd	Ortonville	A	N	W	N
94	Closed Sunburst Florist & Nursery	1660 S Ortonville Rd	Ortonville	A	L	W	L
95	Masterack (Eng. Comp Sys/AutoFab, Inc./Autocomp/Legget & Platt)	1695 S Ortonville Rd	Ortonville	A	L	W	M/H
96	Shell Food Mart	1765 S Ortonville Rd	Ortonville	A	L	W	M/H
97	Eagle Point Shopping Center (former gas station)	1764-76 S Ortonville Rd	Ortonville	W	M/H	W	M/H
98	Horton Renn Insurance	1839 S Ortonville Rd	Ortonville	A	N	W	N
99	Tri-Mountain Water	1963 S Ortonville Rd	Ortonville	A	L	W	M/H

Note: ROW - Right-of-Way; W - Within; A - Adjacent

M/H - Medium or High contamination potential.

N/L - No or Low contamination potential.

* - The one-way pair option was evaluated at these properties instead of the narrow boulevard.

**Table K-1
Potential Contamination Sites (Continued)**

SID No.	Site Name (Former Name or Use)	Address or Location	City	Five-Lane Alternative		Narrow Median Blvd. Alternative	
				ROW W or A	Contamination Potential Rating	ROW W or A	Contamination Potential Rating
100	Dor-Ray Grocery	1890 M-15	Ortonville	A	N	A	N
101	Alderman Animal Hospital (former gas station)	2140 S Ortonville Rd	Ortonville	W	M/H	W	M/H
102	Kountry Coney Restaurant	2195 S Ortonville Rd	Ortonville	W	N	W	N
103	Bullfrogs Restaurant	2225 S Ortonville Rd	Ortonville	A	L	W	M/H
104	Mike's Auto Repair (Woody & Rays Marathon)	2200 S Ortonville Rd	Ortonville	A	L	W	M/H
105	Real Estate One/Team One	2245 S Ortonville Rd	Ortonville	A	L	W	M/H
106	Former Dump (near Solley's Appliances)	S Ortonville Rd	Clarkston	W	M/H	W	M/H
107	Solley's Appliances & Fireplace Center	3779 S Ortonville Rd	Clarkston	A	N	W	N
108	Oakhill Auto Parts/MVA Contr/City Press	3960-80 S Ortonville Rd	Clarkston	W	M/H	W	M/H
109	Office Bldg (StateFarm/Harrell Builder/Hair Salon)	3983 S Ortonville Rd	Clarkston	A	N	W	N
110	And I Do (Oakhill Auto Restoration)	3994 S Ortonville Rd	Ortonville	W	M/H	W	M/H
111	Oakhill Corners Office Bldgs.(Kendrick Corp/Flotronics)	10435-39 Ortonville Rd	Clarkston	A	N	W	N
112	Nicoleodon Restaurant	1081 S Ortonville Rd	Ortonville	A	L	A	L
113	Clarkston Citco	7650 S Ortonville Rd	Clarkston	A	L	A	L
OTHER SITES NEAR THE CORRIDOR							
114	Marathon #8403	1177 State Rd	Davison	-	N	-	N
115	Al Bennett Ford of Davidson	15095 State Rd	Davison	-	N	-	N
116	Genesee County Road Commision	80165 Gale Rd	Goodrich	-	N	-	N
117	Bus Garage	10377 Erie Street	Goodrich	-	N	-	N
118	Village of Goodrich/DPW Garage	10295 Hegel Rd	Goodrich	-	N	-	N
119	Croup Road Contamination	1090 Croup Rd	Ortonville	-	N	-	N
120	Township of Brandon	395 Mill Street	Ortonville	-	N	-	N
121	Brandon Fire and Police Board	53 South Street	Ortonville	-	N	-	N
122	Clark Oil Store # 1361	495 South Street	Ortonville	-	N	-	N
123	Hamilton's of Ortonville	350 Mill Street	Ortonville	-	N	-	N
124	Mill Street Residential Wells	Mill Street	Ortonville	-	M/H	-	M/H
125	Clarkston Road Area	6440 Clarkston Rd	Ind Twp	-	N	-	N
126	Clarkston Shell Station	7251 Ortonville Rd	Clarkston	-	N	-	N
127	Former Texaco	7320 Ortonville Rd	Clarkston	-	N	-	N
128	Main Street Residential Wells	154 N Main St	Clarkston	-	N	-	N

Note: ROW - Right-of-Way; W - Within; A - Adjacent

M/H - Medium or High contamination potential.

N/L - No or Low contamination potential.

* - The one-way pair option was evaluated at these properties instead of the narrow boulevard.

One former municipal landfill along M-15 was reported in interviews with local governmental representatives. The reports indicated that a low-lying area of approximately 20 acres on the west side of M-15, approximately one mile north of Oak Hill Road, was used as a municipal landfill by Brandon and Independence Townships. The landfill site was reportedly acquired by private owners in the late 1960s or early 1970s and the operation ceased. No records regarding this site were available from MDEQ. The proposed project would acquire approximately a 50-foot strip along the eastern edge of this property. A Preliminary Site Investigation (PSI) consisting of soil and groundwater testing should be performed prior to acquisition by MDOT.

By far the most common potential environmental problem for the project is UST sites. There are eight operating gas stations and 19 former gas stations/UST sites along M-15 within the corridor. Twenty-one properties that are within the right-of-way of the proposed project have or had USTs. MDEQ UST records show that there are sixteen registered UST facilities within the corridor. Seven of these were identified as Leaking UST (LUST) sites. Of the seven LUST sites, MDEQ records indicate four are “open” meaning they are being investigated or remediated.

Several of the former gas stations/UST sites closed before 1988, which is when comprehensive federal and state UST regulations went into effect. Because they were not subject to the current UST regulations, there are no public records available for these older sites. Due to the potential for soil and/or groundwater contamination, associated with USTs, on-site testing should be performed at all current and former UST sites that are within the project corridor during the PSI.

In total, 31 sites are recommended for further testing including: one dump; seven sites potentially affected by hazardous material handling; and, 23 underground storage tank sites.